

Info Sheet

MV Switchgear

Medium-voltage distribution made dependable.

1. Overview

IPU SA supplies **Medium Voltage (MV) Switchgear** systems through trusted OEM partners, carefully selected to meet the performance, safety, and compliance requirements of large-scale energy projects. While not manufactured in-house, each MV switchgear solution is engineered, specified, and integrated under IPU SA's technical supervision — ensuring seamless deployment and long-term reliability.

From 3.3kV to 36kV, our MV switchgear panels are available in fixed, withdrawable, and gas-insulated variants to suit different environments and protection strategies.

2. Key Features

- Voltage ranges from 3.3kV to 36kV
- Fixed or withdrawable breaker modules
- Metal-clad, air-insulated, or gas-insulated types
- Protection relays for overcurrent, earth fault, and differential protection
- SF₆, vacuum, or air circuit breaker options
- Built-in interlocks and safety shutters
- Arc flash mitigation and operator-safe designs
- Internal arc classification and earthing switches

3. Applications

- Power generation and transmission stations
- Utility substations and regional distribution nodes
- Large industrial plants and refineries
- Airports, rail, and heavy transport terminals
- Renewable plants (solar farms, wind, hydro)

4. Integration Capabilities

- Compatible with IPU SA synchronization and SCADA systems
- Integration-ready with protection relays (Schneider, ABB, Siemens, GE)
- Communication support: IEC 61850, Modbus, DNP3, Profibus
- Custom busbar links and cabling provisions for site requirements

5. Certifications & Standards

- Compliant with **IEC 62271**, **IEC 60076**, and **IEC 60694**
- FAT and SAT performed as per project or authority requirements
- Sourced from certified OEMs with proven field performance